

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/002080

A. CLASSIFICATION OF SUBJECT MATTER

IPC[7]: F02D-9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC[7]: F02D

USPC: 188/154

CPC: 123/7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms
Epodoc, Derwent, Patent Abstracts of Japan, CPD, Key Words: Engine, Exhaust, Jake, Brake, Relief, Bypass

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X	US 6,179,096 B1 (KINERSON, K. et al.) 30 January 2001 (30-01-2001) Page 5, Lines 13-34; Page 6, Lines 60-67; Page 7, Lines 1-64; Figures 1-6	1-8, 12-14, 16-30, 34-36, 38-52, 56-58 and 60-66
A	US 6,223,534 B1 (ERDMANN, W. et al.) 1 May 2001 (01-05-2001)	All
A	US 6,109,027 B1 (SCHAEFER, N.) 29 August 2000 (29-08-2000)	All
A	US 4,682,674 B1 (SCHMIDT, A.) 28 July 1987 (28-07-1987)	All
A	US 2003/0131894 A1 (HECKT, R. et al.) 17 July 2003 (17-07-2003)	All

[] Further documents are listed in the continuation of Box C. [X] See patent family annex.

* Special categories of cited documents :
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search

14 March 2008 (14-03-2005)

Date of mailing of the international search report

29 March 2005 (29-03-2005)

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International application No.

Information on patent family members

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6179098 B1	30-01-2001	WO9924732 A1	20-05-1999
US6223534 B1	01-05-2001	DE19836677 A1 FR2782344 A1 GB2340545 A	17-02-2000 18-02-2000 23-02-2000
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